King County

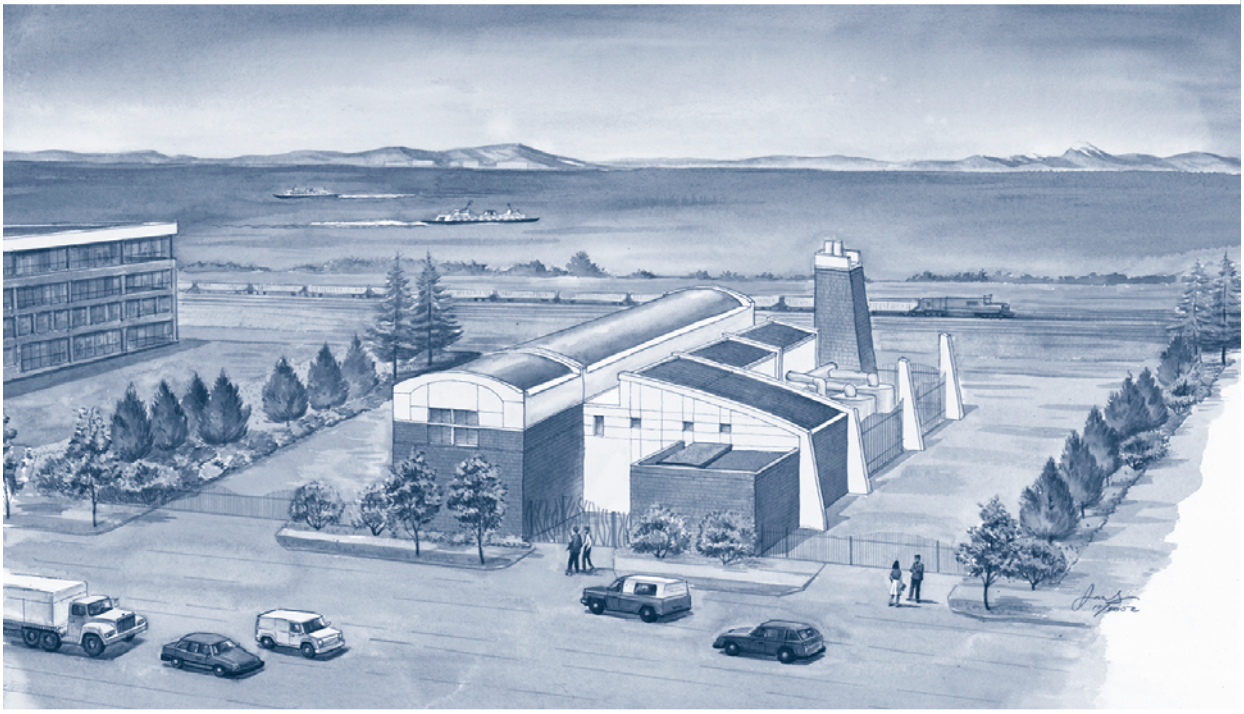
City of Seattle

EPA
U.S. Environmental Protection Agency

DENNY WAY
LAKE UNION

CSO Control Project

Issue No. 9
April 2003



Artist rendering of CSO control facility, located at 545 Elliott Ave. W.

Construction of the CSO Control Facility is Under Way

Construction of the Elliott West Combined Sewer Overflow (CSO) control facility began in December 2002. The RCI Construction Group, contractor for this facility, will also complete the connections linking this structure to the other facilities that are being built for this project. The CSO control facility will be completed in mid-2004. Look inside for details about this facility, progress on the south Lake Union pipelines contract, upcoming construction activities, and other project information.

The Denny Way/Lake Union CSO Control Project is a joint effort of King County and the City of Seattle to control combined sewer overflows into Lake Union and Elliott Bay. CSOs are overflows of sanitary sewage and stormwater that are released into water bodies during storms. Construction activities for this project are taking place in three areas of the city: 545 Elliott Ave. W., Elliott Bay and Myrtle Edwards parks, and south Lake Union. Construction began in May 2000 and is expected to be completed in mid-2004.

See inside for information on:

The CSO Control Facility: *how will it work?*

The CSO control facility is an important element of the Denny Way/Lake Union CSO Control Project. The facility has two basic modes of operation:

1. During storms, the facility will direct combined stormwater and sanitary sewer flows into the new Mercer Street wastewater storage tunnel. This is expected to happen about 50 times a year. After each storm subsides, the CSO control facility will pump the stored flows from the Mercer Street tunnel to the Elliott Bay Interceptor, a sewer trunk leading to the West Point Treatment Plant.

2. During larger storms, about 10 to 20 times per year, the Mercer Street tunnel will fill completely. When that happens, the CSO control facility will automatically begin to treat the stored flows and pump them to the new CSO outfall, located offshore at Myrtle Edwards Park. Treatment includes screening out floatable materials, disinfection, and dechlorination. Operation of the facility after the storm will be the same as described above.

During very large storms, an average of once a year, flows may exceed the pumping capacity of the CSO control facility. Then, untreated flows will be discharged at the new CSO outfall at Myrtle Edwards Park.

The new facilities built for this project will convey, store, and treat combined sewage only during storms. During dry weather, the facilities will be empty and wastewater will flow through existing pipes to the West Point Treatment Plant.

Will this facility affect the community?

The facility was designed with community involvement to ensure that its architecture is compatible with the neighborhood. The facility will also incorporate odor control equipment to prevent noticeable odors to nearby businesses and residents.

Operation of the facility is automatic, so staff will not be on-site most of the time. Maintenance staff will inspect the facility daily and will be on-site for periodic deliveries of chemicals used in the treatment process. Traffic generated by this facility's operation is expected to be minimal.

Who Can I Contact With... Questions? Comments? A Problem With Construction?

Community Liaison
Yvonne Kraus
Norton-Arnold & Company
206/269-0229 ext: 12

Internet Address:
http://dnr.metrokc.gov/wtd/dennyway/

E-mail: yvonne@na-company.com

Hotline number: 206/205-1460.
Use this number 24 hours a day to report complaints related to construction activities.

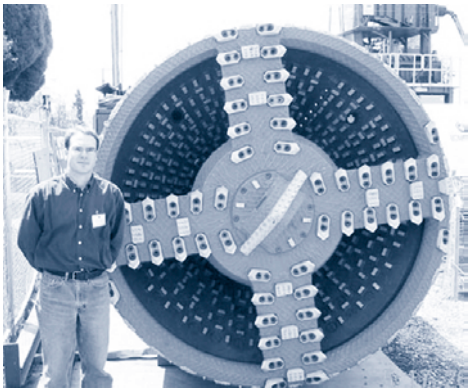
Alternative Formats Available

206-269-0229. TTY Relay: 711.

Tunneling for the South Lake Union Pipelines Begins Soon

The south Lake Union pipelines contract includes construction of four new sewer pipelines in the south Lake Union neighborhood. These pipelines will connect the existing sewer systems in the Eastlake and south Lake Union neighborhoods to the new CSO facilities. In December 2002, a short pipeline under Roy Street was completed using a cut-and-cover construction technique.

The remaining three pipelines will be tunneled, which will minimize impacts to the community. To complete this work, four areas are affected in the south Lake Union neighborhood, located at the start and end point of each tunnel. The locations of, and expected impacts at, these work areas are outlined in the map below.



Front view of the tunnel boring machine that will be used to bore three tunnels in the south Lake Union area.

1 Roy St. & Dexter Ave. N.
Construction of two sewer tunnels at the 8th Ave. N. and Roy St. work-area will continue throughout 2003. Work will also continue at Dexter Avenue, between Mercer and Roy Streets, for several months. The current traffic detours will remain in place. Bike lanes will stay open in both directions.

3 N.W. Corner of Valley St. &Terry Ave. N.
A shaft will be dug for the tunnels that begin and end here. Truck traffic will be generated during excavation and tunneling; flaggers will be used as necessary on Valley St. Construction began in October 2002 and will be completed in mid 2003.

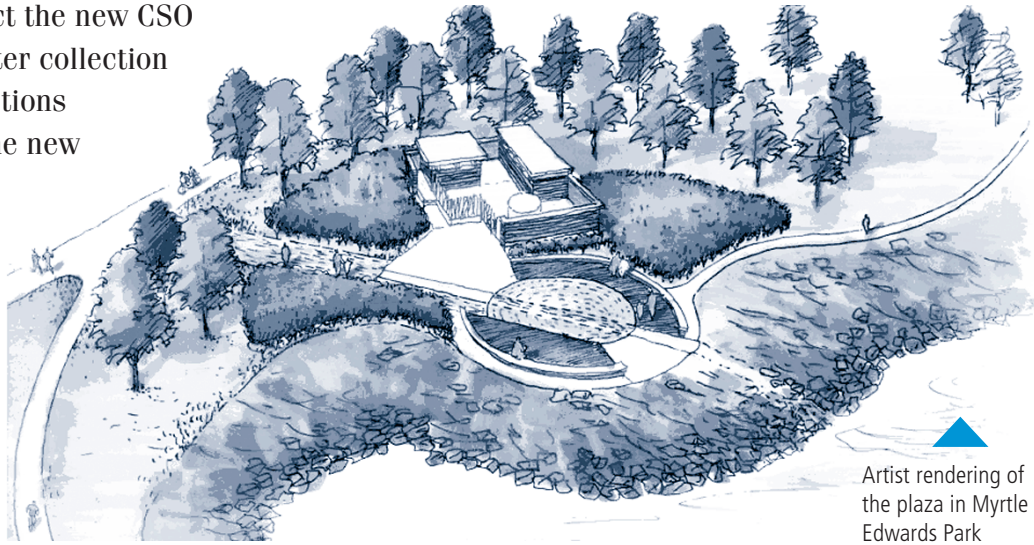
2 Republican St. & 8th Ave. N.
Excavation of a shaft began in September 2002 for use as a receiving pit for the tunnel boring machine. Following tunneling, an underground regulator structure will be built here. The intersection will remain closed to traffic until the new structure is complete and the road is restored in early fall 2003.

4 Valley St., east of Fairview Ave. N.
A shaft will be excavated to serve as a receiving pit for the tunnel boring machine. Construction begins in spring 2003; one block of Valley St. will be closed for about six months.

What's Happening in our Waterfront Parks?

In spring 2003, work will begin on restoring the pipeline corridor and installing the plaza and artwork at the Denny flow regulator. By fall 2003, much of the park restoration north of the Denny flow regulator is expected to be complete, but work may continue on the plaza and artwork. The shared bicycle and pedestrian path configuration will remain as is until summer 2003.

Much work was accomplished in the parks last year. Construction of two large-diameter pipes was completed last June, and progress is currently being made on the structures that will connect the new CSO facilities to the existing wastewater collection system. Last summer, the connections between the new pipelines and the new offshore outfalls were also completed. This work enabled demolition of the old outfall on the beach and restoration of the shoreline. Look for more information about our progress in the parks and impacts to the summer events in our next newsletter.



Artist rendering of the plaza in Myrtle Edwards Park

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